

# *Ecpleopus gaudichaudi* Duméril and Bibron, 1839 (Squamata: Gymnophthalmidae) and *Psychosaura agmosticha* (Rodrigues, 2000) (Squamata: Scincidae): Distribution extension and new records from Atlantic Forest in Bahia state, Brazil

Eduardo José dos Reis Dias<sup>1\*</sup> and Carlos Frederico Duarte Rocha<sup>2</sup>

- 1 Universidade Federal de Sergipe, Departamento de Biociências, Laboratório de Biologia e Ecologia de Vertebrados, Avenida Vereador Olímpio Grande s/n, Centro. CEP 49500-000. Itabaiana, SE, Brazil.
  - 2 Universidade do Estado do Rio de Janeiro, Instituto de Biologia Roberto Alcântara Gomes, Departamento de Ecologia, Rua São Francisco Xavier 524, Maracanã. CEP 20550-019. Rio de Janeiro, RJ, Brazil.
- \* Corresponding author, e-mail: [ejrdias@hotmail.com](mailto:ejrdias@hotmail.com)

**ABSTRACT:** We present the first record of *Ecpleopus gaudichaudi* and *Psychosaura agmosticha* for the state of Bahia, in the Atlantic Forest, Brazil. *Ecpleopus gaudichaudi* was found in the southernmost portion of the state, in the Restinga de Nova Viçosa, municipality of Nova Viçosa, whereas *Psychosaura agmosticha* was found in the northernmost portion of the state in the Restinga de Costa Azul, municipality of Jandaíra. This is the first time these lizard species were recorded in restinga habitats, and the first record of *P. agmosticha* in the Atlantic Forest domains.

*Ecpleopus gaudichaudi* Duméril and Bibron, 1839 is a small-bodied leaf-litter dwelling lizard endemic to the Brazilian Atlantic Forest recorded in the states of Minas Gerais, São Paulo, Rio de Janeiro, Espírito Santo, and Santa Catarina (Eisemberg *et al.* 2004; Dixo and Verdade 2006; Carvalho *et al.* 2007; Periri and Butti 2008; Costa *et al.* 2009; Tonini *et al.* 2010; Kunz *et al.* 2011; Ramos and Oliveira 2011), besides an isolated record from Goiás without precise locality data (Uzzell 1969).

Here we present three new records of *Ecpleopus gaudichaudi* from the state of Espírito Santo in Guarapari Municipality (20°42' S, 40°30' W) housed at the reptile collection of Museu Paraense Emílio Goeldi (MPEG 25072 and 25073), Linhares Municipality (19°41' S, 40°06' W) and Santa Tereza Municipality (19°55' S, 40°36' W) housed at the reptile collection of Museu de Zoologia da Universidade de São Paulo (MZUSP 3202 and 57251 respectively).

On 31 January 2005 we captured in pitfall traps three specimens of *Ecpleopus gaudichaudi* (24.8 – 31.0 mm snout vent length (SVL),  $\bar{x} = 27.02 \pm 1.89$  mm, Figure 1) at a restinga habitat in Nova Viçosa municipality (17°58'26" S, 39°28'29" W), Bahia state (Figure 2) (collection permit: 161/04 - IBAMA/RAN). This record extends the species known distribution 240 km northward from Linhares (the nearest locality record), state of Espírito Santo. It is the first record of the species in the state of Bahia and in the restinga ecosystem. Specimens were housed at the reptile collection of Museu de Zoologia da Universidade de São Paulo (MZUSP 98044–98046).

*Psychosaura agmosticha* Rodrigues, 2000 is a recently described skink species which has been recorded in the states of Rio Grande do Norte, Paraíba, Pernambuco,

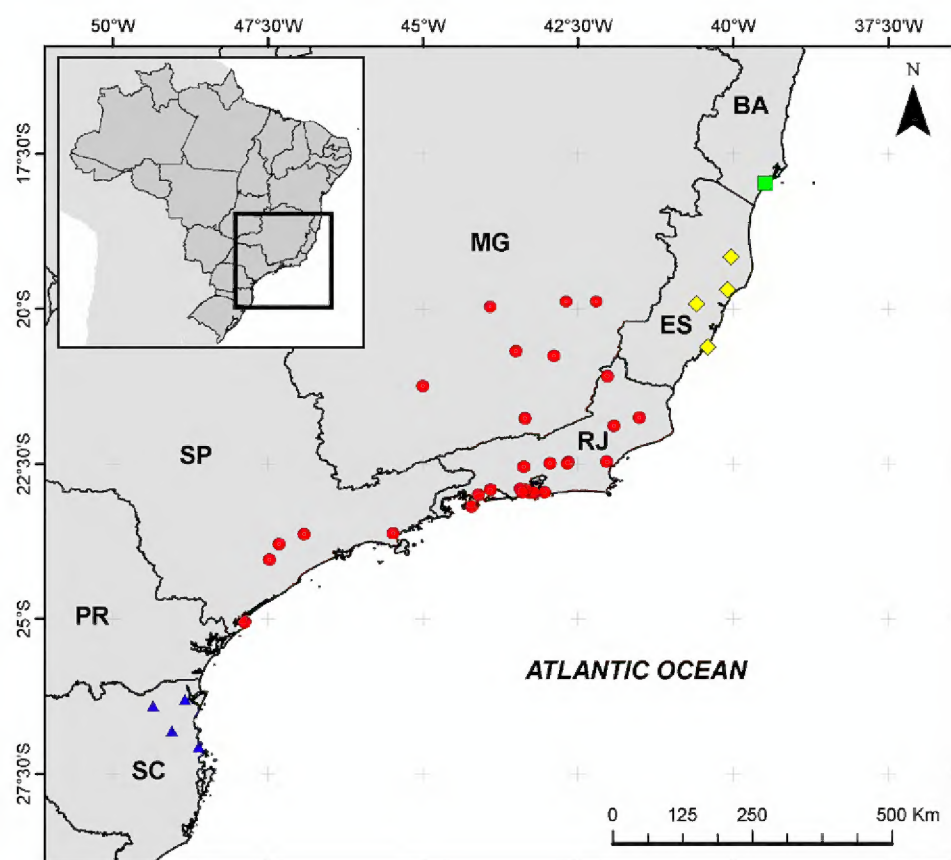
Alagoas and Sergipe (Rodrigues 2000; Arzabe *et al.* 2005; Carvalho *et al.* 2005; Rodrigues and Santos 2008; Freire *et al.* 2009; Jorge and Freire 2010), northeastern Brazil. On 07 April 2004 we captured two specimens of *P. agmosticha* (64.1 and 62.2 mm SVL; Figure 3) during active search in the locality of Restinga de Costa Azul (11°40'28" S, 37°29'03" W), municipality of Jandaíra, Bahia state (Figure 4) (collection permit: 056/02 - IBAMA/RAN). The new record extends the known geographical distribution of *P. agmosticha* ca. 250 km southward from the nearest locality record in the municipality of Xingó (09°24' S, 37°58' W) state of Sergipe (Rodrigues 2000). All specimens were captured in the morning in thickets of thorny bromeliads in restinga habitat. The specimens were housed in the reptile collection of the Museu Nacional, Rio de Janeiro



**FIGURE 1.** Live adult of *Ecpleopus gaudichaudi* Duméril and Bibron, 1839 (Photo by Maurício Gomes).



(MNRJ 16230 and 16231). *Psychosaura agmosticha* is a typical species of the semiarid Caatinga domain, usually occurring among dry cactuses, fallen logs, on the ground, and on thickets of the thorny bromeliad *Bromelia laciniosa* (Rodrigues 1987; 2000; Carvalho *et al.* 2005). This is the first time *P. agmosticha* was recorded in the restinga habitats as well as the first time in the Atlantic Forest. Other lizard species are known to occur both in the Caatinga and Atlantic Forest domains (Rodrigues 2003), and these finds add relevant information to understand biological connections between the semiarid Caatinga and the rainy Atlantic Forest.

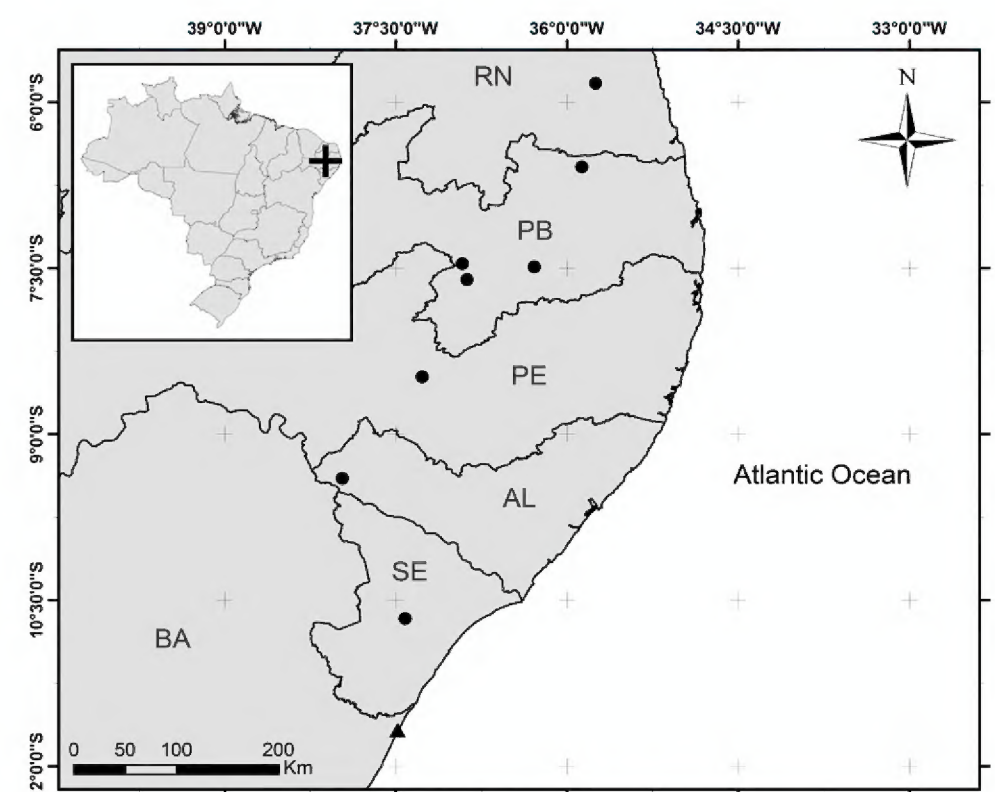


**FIGURE 2.** Known records of *Ecpleopus gaudichaudi*, Brazil. BA: Bahia; ES: Espírito Santo; RJ: Rio de Janeiro; MG: Minas Gerais; SP: São Paulo; PR: Paraná and SC: Santa Catarina. Green square represents the new record, yellow rhombus represent reptile collections data and record in Tonini *et al.* 2010, red circles represent records in Ramos and Silveira 2011 and blue triangles records in Kunz *et al.* 2011.

In Jandaíra, *Psychosaura agmosticha* was found in syntopy with *P. macrorhyncha*, and associated to the bromeliads *Aechmea multiflora* and *A. blanchetiana*. The present record adds the fourth skink species occurring in Bahia, in addition to *Brasiliscincus agilis*, *B. heathi* and *P. macrorhyncha* (Vanzolini 1980; Rocha and Bergallo 1997; Rodrigues 2000).



**FIGURE 3.** Live adult of *Psychosaura agmosticha* Rodrigues, 2000 (Photo by Eduardo Dias).



**FIGURE 4.** Known records of *Psychosaura agmosticha*, northeastern Brazil. BA: Bahia; SE: Sergipe; AL: Alagoas; PB: Paraíba; PE: Pernambuco; and RN: Rio Grande do Norte. Circles represent previously reported localities and triangle represents the new record, in Bahia.

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